

NorthLux™ A21 10W LED Bulb

PN 4006.50 | 4006.65

Waveform Lighting's NorthLux™ A21 15W LED bulbs are the perfect solution for visual arts applications where a consistent and color-accurate daylight spectrum is needed.

With a 95 CRI rating, these full-spectrum bulbs are offered in 5000K and 6500K to perfectly replicate natural, north-facing light. The lamps' flicker-free light output also helps avoid eye strain and fatigue while working.

The universal A21 form factor includes a traditional medium Edison screw base (E26), which allows for installation in wide range of lamp fixtures.

PRODUCT FEATURES

- Available in both 5000K or 6500K
- 95+ CRI and R9 > 90, meets D50 and D65 ISO color standards
- 1600 lumens (100 watt incandescent equivalent)
- Fully flicker-free light output
- Not compatible with dimmers and fully enclosed fixtures
- UL listed (E519490), for indoor use only

ELECTRICAL SPECIFICATIONS

Input type:	AC line voltage
Input voltage:	90-240V AC, 50-60 Hz
Power consumption:	15 watts
Current draw:	200 mA
Power factor:	0.5+

MECHANICAL SPECIFICATIONS

Length:	5.24 in (133 mm)
Bulb diameter:	2.76 in (70 mm)
Base:	E26

PHOTOMETRIC SPECIFICATIONS

Light output:	1600 lumens
5000K CCT:	5000K ± 150K
6500K CCT:	6500K ± 250K
5000K Duv:	0.0015 ± 0.0015
6500K Duv:	0.0025 ± 0.0015
5000K CIE xy:	(0.3455, 0.3548)
6500K CIE xy:	(0.3134, 0.3283)
Beam angle:	320°
CRI Ra:	95+
CRI R9:	90+
CRI R13:	90+
TM-30-15 Rf/ Rg:	90+/100

EXTENDED CRI VALUES (TYPICAL)

R1	97
R2	99
R3	98
R4	99
R5	98
R6	97
R7	99
R8	98
R9	97
R10	99
R11	97
R12	83
R13	98
R14	98
R15	97



MECHANICAL DIMENSIONS
(1:2 SCALE)

How many bulbs do I need?

For visual arts and studio applications, we recommend an illuminance level of 80 footcandles (800 lux). To achieve this level of illuminance, you will need approximately one A21 bulb for every 20 square feet of space. To illuminate a 100 square foot studio, for example, you will want to install five of these A21 bulbs. [See our lumen estimation calculator for details.](#)

Should I choose 5000K or 6500K?

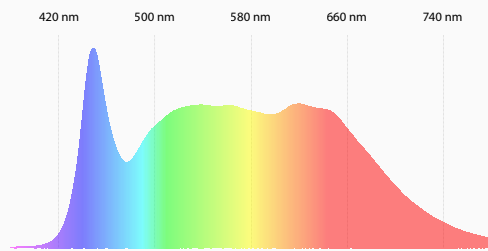
5000K is a neutral, bright white light that best approximates noon sunshine. 6500K has a slightly blue hue that best approximates north sky. Most customers find that the 5000K is ideal; some customers with north-facing windows in their studio may prefer the 6500K to ensure a consistent match between their bulbs and the natural light. [See our article for more insights.](#)

Where and how do I install these lamps?

These lamps utilize the latest advancements in LED technology, but can be installed in any traditional lighting fixture as long as it utilizes an E26 base. Many of our customers who are painters choose to use these bulbs inside clip-on lamps on their easel. These lamps can also be used in table and task lamps as well as floor lamps.

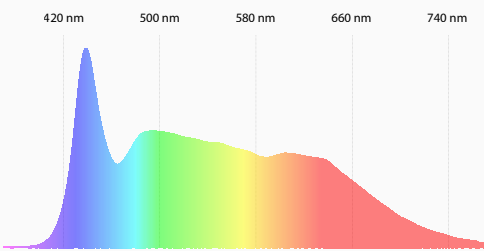
5000K SPECTRUM

D50 Compliant



6500K SPECTRUM

D65 Compliant



FLICKER METRICS

Flicker (%):	< 1%
Flicker index:	< 0.01
Flicker frequency:	0 Hz

For reference, incandescent bulbs typically exhibit 12% flicker, a flicker index value of 0.03, and a flicker frequency of 120 Hz.

LIFETIME INFORMATION

Warranty period:	36 months (3 years)
Lifetime (L90):	25,000 hours

PART NUMBERS AND ORDERING

5000K E26:	4006.50
6500K E26:	4006.65

NOTE: This product is identical to the CENTRIC DAYLIGHT™ LED A21 15W bulb and is listed as a separate catalog item for marketing purposes only.

CERTIFICATIONS



CAUTION: DO NOT USE WITH DIMMERS. NOT FOR TOTALLY ENCLOSED LUMINAIRES. FOR DAMP LOCATIONS. DO NOT USE WHERE DIRECTLY EXPOSED TO WATER.

PRODUCT LIMITATIONS

- NOT DIMMABLE** - this lamp is not compatible with wall-dimmers. Do not install this product in any lamp or fixture that is connected to a dimmer circuit, as this may lead to undesirable lighting effects such as flickering or flashing, premature failure, or fire and electrical shock risk.
- NOT COMPATIBLE WITH COMPLETELY ENCLOSED FIXTURES** - this lamp is not designed or approved for use in completely enclosed fixtures. Completely enclosed fixtures create an airtight space where insufficient ventilation can cause thermal buildup and premature lamp failure. Lamp fixtures with any kind of air gap or opening are not considered *completely* enclosed, and therefore can be used without any issues.
- NOT WATERPROOF** - this lamp is not designed to be waterproof, and should not be exposed directly to water. Use in damp locations where ambient moisture is present (bathrooms, covered outdoor areas), is permissible as long as water does not come in direct contact with the lamp.